

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: METALUX

Report Number: P566273

Luminaire Tested: **4SNX-31SL-UNV-L850-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566273  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2202-547-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-31SL-UNV-L850-CD  
Description: 4FT 3100 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND NO LENS  
Light Source: -  
Ballast/Driver: -

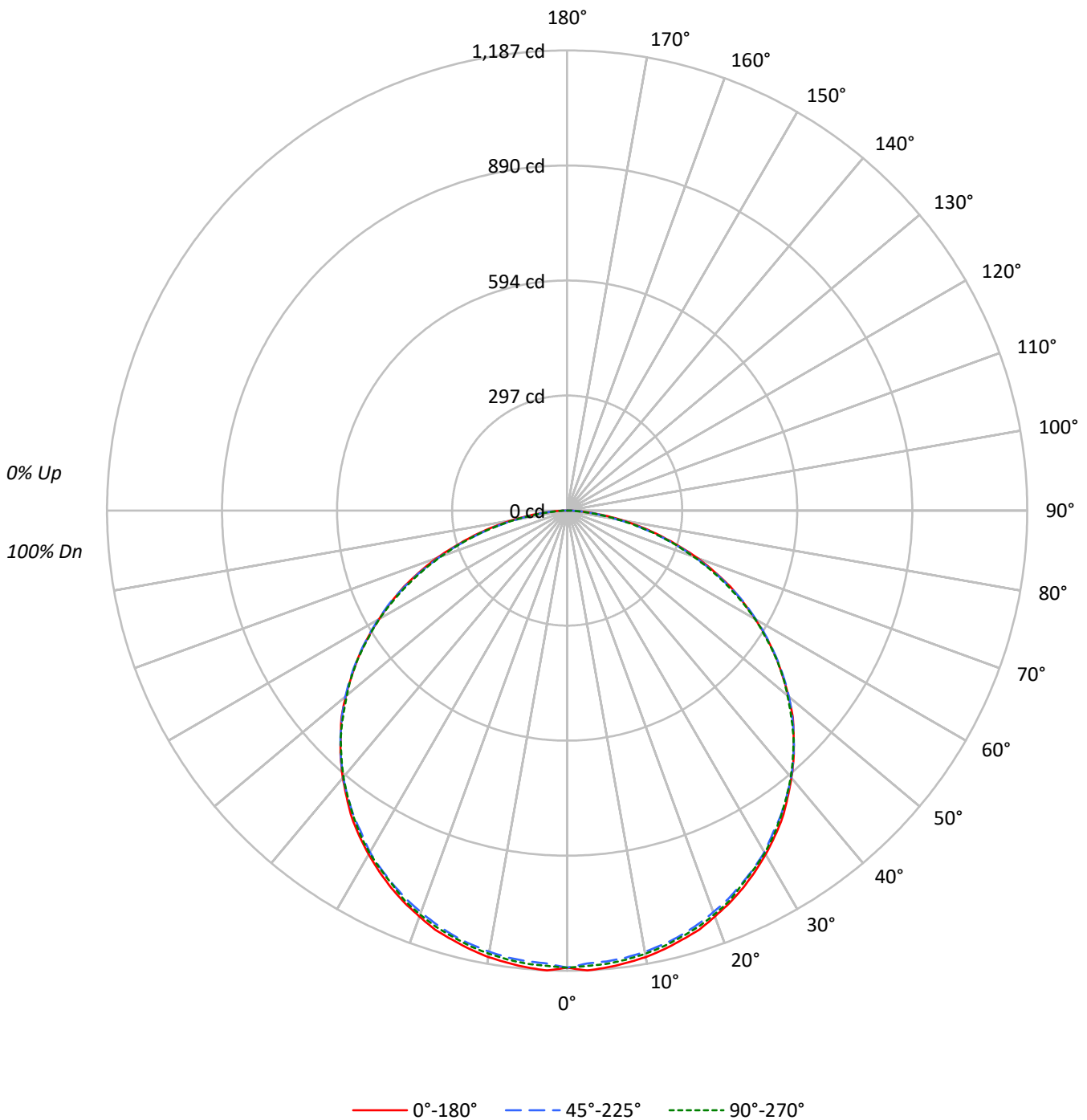
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3525.0 lumens  
Efficiency: N/A  
Efficacy: 180.8 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.28 / 1.41  
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 19.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	98	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	12690	12690	12690
5°	12785	12613	12681
10°	12782	12631	12689
15°	12772	12641	12688
20°	12764	12630	12703
25°	12756	12630	12655
30°	12729	12650	12676
35°	12720	12621	12636
40°	12648	12632	12618
45°	12572	12587	12572
50°	12481	12516	12427
55°	12316	12356	12296
60°	12073	12120	12051
65°	11828	11747	11584
70°	11245	11012	10877
75°	10272	9919	9965
80°	8870	8213	8412
85°	6681	6410	5755



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.8	3.2
10°-20°	322.3	9.1
20°-30°	493.1	14.0
30°-40°	602.9	17.1
40°-50°	637.7	18.1
50°-60°	587.6	16.7
60°-70°	452.8	12.8
70°-80°	253.7	7.2
80°-90°	63.1	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	927.2	26.3
0°-40°	1530.1	43.4
0°-60°	2755.4	78.2
0°-90°	3525.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3525.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1179	1179	1179	1179	1179	
5°	1183	1179	1167	1179	1174	112
15°	1146	1144	1134	1144	1139	324
25°	1074	1072	1063	1072	1066	495
35°	968	966	960	964	962	605
45°	826	829	827	826	826	638
55°	656	662	658	658	655	586
65°	464	464	461	450	455	457
75°	247	244	238	230	240	262
85°	54	51	52	52	47	67
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1178.9	1178.9	1178.9	1178.9	1178.9
2.5°	1187.4	1182.1	1169.4	1181.1	1175.8
5°	1183.2	1178.9	1167.3	1178.9	1173.6
7.5°	1176.8	1173.6	1163.0	1173.6	1168.3
10°	1169.4	1166.2	1155.6	1166.2	1160.9
12.5°	1158.8	1156.7	1146.1	1156.7	1151.4
15°	1146.1	1143.9	1134.4	1143.9	1138.6
17.5°	1133.3	1129.1	1119.6	1130.2	1125.9
20°	1114.3	1112.1	1102.6	1112.1	1109.0
22.5°	1095.2	1093.1	1084.6	1093.1	1090.9
25°	1074.0	1071.9	1063.4	1071.9	1065.5
27.5°	1049.6	1050.7	1041.1	1046.4	1043.2
30°	1024.1	1024.1	1017.8	1019.9	1019.9
32.5°	996.6	996.6	987.0	993.4	992.3
35°	968.0	965.8	960.5	963.7	961.6
37.5°	934.0	933.0	929.8	931.9	929.8
40°	900.1	901.2	899.0	898.0	898.0
42.5°	865.1	867.2	864.1	863.0	861.9
45°	825.9	829.1	826.9	825.9	825.9
47.5°	789.8	790.9	787.7	786.7	783.5
50°	745.3	749.6	747.4	745.3	742.1
52.5°	700.8	707.1	702.9	700.8	700.8
55°	656.3	661.6	658.4	658.4	655.2
57.5°	609.6	614.9	610.7	610.7	606.4
60°	560.8	566.1	563.0	559.8	559.8
62.5°	512.1	516.3	515.3	510.0	506.8
65°	464.4	464.4	461.2	449.5	454.8
67.5°	410.3	409.2	405.0	393.3	400.8
70°	357.3	357.3	349.9	336.1	345.6
72.5°	300.0	303.2	293.7	284.1	293.7
75°	247.0	243.8	238.5	230.1	239.6
77.5°	196.1	190.8	184.5	180.2	185.5
80°	143.1	139.9	132.5	132.5	135.7
82.5°	97.5	94.4	89.1	90.1	85.9
85°	54.1	50.9	51.9	51.9	46.6
87.5°	22.3	22.3	22.3	20.1	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)